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## **INFORMATION DISCLOSURE** STATEMENT BY APPLICANT

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Sheet

	Complete if Known
Application Number	09/934,905
Filing Date	August 22, 2001 7
First Named Inventor	Ismael A. Hernandez et al.
Group Art Unit	<del>3765</del> -1732 0 0 0
Examiner Name	Unassigned TENTONI
Attorney Docket Number	DP-6675 US NA 👼

U.S. PATENT DOCUMENTS							
U.S. Patent Document		Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant			
Examiner Initials *	Cite No. <sup>1</sup>	Number Kind C			Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	
		Whinfield et al.	03-22-1949				
		3,038,237	-	Taylor	06-12-1962		
		3,350,871		Pierce et al.	11-07-1967		
		3,454,422		Mead et al.	07-08-1969	<u> </u>	
		3,454,460		Bosley	07-08-1969		
		3,584,103		Harris	06-08-1971	/	
		3,671,379		Evans et al.	06-20-1972		
		3,681,188		Harris	08-01-1972		
		3,772,137		Tolliver	11-13-1973		
		3,816,486		Vail	06-11-1974		
		3,973,383		Yu	08-10-1976		
		3,998,042		Reese	12-21-1976	-	
		4,134,882		Frankfort et al.	01-16-1979		
		4,256,589		Carver et al.	03-17-1981		
		4,639,347		Hancock et al.	01-27-1987		
	1	4,710,432		Nishimura et al.	12-01-1987		
		4,725,635		Okada et al.	02-16-1988		
	1	4,794,038		Marcus	12-27-1988		
		4,836,763		Broaddus	06-06-1989	<del>-</del>	
		4,850,847		Samuelson	07-25-1989		
		5,104,725		Broaddus	04-14-1992		
		5,112,684		Halm et al.	05-12-1992		
		5,458,971		Hernandez et al.	10-17-1995		
		5,645,782		Howell et al.	07-08-1997		
		5,683,811	-	Hernandez et al.	11-04-1997		
		5,723,215		Hernandez et al.	03-03-1998		
		5,736,243		Aneja et al.	04-07-1998		
		5,782,935		Hirt et al.	07-21-1998		
	1	5,851,665		Marcus	11-22-1998	-	
		5,874,372		Morishita et al.	02-23-1999		
		5,882,794		Hernandez et al.	03-16-1999		
		5,891,568		Hartzog et al.	04-06-1999		
ĺ	<u> </u>	5,970,700		Scheerer et al.	10-26-1999		
i		5,994,451		Dangayach	11-30-1999		
		6,023,926		Flynn	02-15-2000		
		6,037,057	•	Hartzog et al.	03-14-2000		
		6,250,060	B1	Scheerer et al.	06-26-2001		
		6,287,688	B1	Howell et al.	09-11-2001		
		6,306,498	B1	Yuuki et al.	10-23-2001		
1.	<del> </del>	2001/0030377	A1	Howell et al.	10-18-2001		
<b>W</b>		2001/0030378	A1	Howell et al.	10-18-2001		
LBT	· · · · · · · · · · · · · · · · · · ·	2001/0031356	A1	Howell et al.	10-18-2001		

Examiner Signature	LEO B. TENTONI	Date Considered	08/22/2003
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Group Art Unit	<del>3765-</del> 1732			
Examiner Name	Unassigned TENTONIL			
Attorney Docket Number	DP 6675 LIS NA			

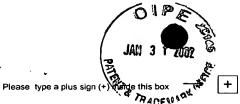
_	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	For Office <sup>3</sup>		ment ind Code <sup>5</sup> if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	) T <sub>6</sub>
LBT		EP	745 711	A1	Shell	12-04-1996		X
		EP	1 016 692	A1	Asahi	<del>05</del> -07-2000		X
		EP	1 016 741	A1	Asahi	<del>05</del> -07-2000		Х
		EP	1 033 422	A1	Asahi	09 06-03-1999 200	0	X
		EP	1 052 325	A1	Asahi	11 08 05 1009 and		X
		GB	1 075 689		DuPont	07-12-1967		X
		GB	1 165 312		DuPont	09-24-1969		Х
		GB	1 254 826		Fiber Industr.	11-24-1971		Х
		JP	52-5320		Teijin	01-17-1977		Х
		JP	58-076517	Α	Teijin	<del>99-</del> 05-1983		Abstr.
		JP	62-85026	A	Toray	04-18-1987	-	Х
		JP	02-61111	A	Kuraray et al	03-01-1990		X
		JP	05-71013	A	Teijin	03-23-1993		Х
		JP	9-111629	A	Toyobo	04-28-1997		Х
		JP	11-093034	A	Unitika	04-06-1999		X
		JP	11-100721	A	Asahi	04-13-1999		Х
		JP	11-100768	A	Asahi	04-13-1999		Х
		JP	11-107036	A	Asahi	04-20-1999		Х
		JP	11-107038	Α	Asahi	04-20-1999		Х
		JP	11-107081	A	Asahi	04-20-1999		Х
		JP	11-107149	A	Asahi	04-20-1999		·X
		JP	11-158733	Α	Toyobo	06-15-1999		Х
		JP	11-189920	A	Asahi	07-13-1999		Х
		JP	11-189938	A	Toray	07-13-1999		Х
		JP	11-335954	_^	Unitika	12-07-1999		X
		JP	00-017556A	Α	Unitika	01-18-2000		Х
		WO	99/28122	AL	Haggard et al.	06-10-1999		·X
		WO	99/50483	Ai	Aneja et al.	10-07-1999		Х
		WO	00/03078	Al	Wellman	01-20-2000		Х
		WO	00/26301	Al	Asahi	05-11-2000		X
		WO	01/07693	A1	Zimmer AG	02-01-2001		Х
		WO	01/66837	A1	Howell et al.	09-13-2001		Х
V		WO	01/66838	A1	Howell et al.	09-13-2001		Х
LBT		wo	01/68962	A2	Shell	09-20-2001	-	X

Examiner Signature	LEO B. TENTONI	Date Considered	08/22/2003

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Substitute for form 1449A/PTO Complete if Known Application Number 09/934,905 **INFORMATION DISCLOSURE** Filing Date August 22, 2001 STATEMENT BY APPLICANT First Named Inventor Ismael A. Hernaค์dez et al. Group Art Unit <del>3765</del> 1732 (use as many sheets as necessary) Examiner Name Unassigned TENSTON Sheet of 4 Attorney Docket Number **DP-6675 US NA** 

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		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	<i></i> →
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
LBT		"Textile Staple Production", Corterra Polymers, Shell Chemical Company (Copyright Shell 2000)	
		Ch. Hwo et al., "Opportunities of Corterra PTT fibers in textiles", Reprinted from Chemical Fibers International, Vol. 50 (2000) No. 1, February 2000, referencing lecture held at the Polyester "999 World Congress, October 25-28, 1999 in Zurich Switzerland	
		H.S. Brown, et al., "Poly(Trimethylene Terephthalate) Polymers for Fibers", Shell Chemical Company (Copyright 1999)	
		M. Moerman, et al., Corterra Polymers, Value Proposition in Textile Apparel Applications, Shell Chemical Company (Copyright Shell 2001)	
		P. Casey et al., "Elastic PTT staple spun yarns and fabrics", Research Disclosure 445034 (May 2001)	
		P. Casey et al., "Staple fibers made from low intrinsic viscosity polytrimethyleneterephthalate", Research Disclosure 445077 (May 2001)	
		H.L. Traub, et al., "Mechanical properties of fibers made of polytrimethylene terephthalate", Chemical Fibers International, Vol. 45, pp. 110-111 (1995)	
	W. Oppermann, et al., "Fibers Made of Poly(trimethylene terephthalate)",		
	I. M. Ward, et al., "The Mechanical Properties and Structure of Poly(m-methylene Terephthalate) Fibers", Journ of Polymer Science Vol. 14, 263-274 (1976).		
	H. L. Traub, "Synthese und textilchemische Eigenschaften des Poly-Trimethyleneterephthalats", Dissertation Universitat Stuttgart (1994), (Translation)		х
		S. Schauhoff, "New Developments in the Production of Polytrimethylene Terephthalate (PTT)", Man-Made Fiber Year Book (September 1996)	
		"Corterra® staple fibre for spinning", from Shell Chemical Compani for presentation at 39th International Man- made Fibre Congress, held Dornbirn, Austria (September 13-15, 2000)	-
		U.S. Patent Application No. 09/518,732, filed 03/03/00 (Docket# CH2756)	
		U.S. Patent Application No. 09/795,933, filed 02/28/01 (Docket# CH2756 DIV)	
		U.S. Patent Application No. 09/518,759, filed 03/03/00 (Docket# DP6535)	
		U.S. Patent Application No. 09/795,518, filed 02/28/01 (Docket# DP6535 CIP)	
		U.S. Patent Application No. 09/795,520, filed 02/28/01 (Docket# DP6535 CIP1)	
		U.S. Patent Application No. 60/187,244, filed 03/03/00 (Docket# DP6540 P1)	
$\bigvee$		U.S. Patent Application No. 09/796,785, filed 03/01/01 (Docket# DP6540)	
LBT		U.S. Patent Application No. 09/855,343, filed 5/15/01 (Docket# DP6760)	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number 09/934,905

Filing Date August 22, 2001

First Named Inventor Ismael A. Hernandez et al.

Group Art Unit -3765-173Q

Examiner Name

Unassigned TENTONI

Attorney Docket Number

DP-6675 US NA

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Sheet 4 of 4

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Research Disclosure 17410 (October 1978)

Examiner Signature	LEO B. TENTONI	Date Considered	08/22/2003

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**U.S. PATENT DOCUMENTS** 

Name of Patentee or Applicant

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Sheet

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Date of Publication of

Examiner Initials *	No.1	Number	Kind Code <sup>2</sup> (if known)	of C	ited Document	Cited Document MM-DD-YYYY	Passages or Releval Figures Appear	- 1
LBT		4,159,6	617	Allan		07-03-1979		<u>~ 3</u>
LBT		5,527,6	800	Fra	nkosky et al.	06-18-1996		3 T
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							- 1.	
				FOREIGI	N PATENT DOC	UMENTS		
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Initials*	No. <sup>1</sup>	Office <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)		or Applicant of Cited Document	MM-DD-YYYY	Passages or Relevant Figures Appear	Т <sub>6</sub>
LBT		wo	93-11292	A1	DuPont	06-10-1993		
LBT		wo	01-49909	A1	Teijin	07-12-2001		
LBT		EP	1 160 362	A1	Teijin	12-05-2001		
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		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	<u> </u>
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	LBT		US Patent Application No. 09/934,904, filed August 22, 2001 (Docket# DP6670)				
			US Patent Application No. 09/934,866, filed August 22, 2001 (Docket# DP6676)				
			C. C. Hwo, et al., "Nonwovens from Poly(trimethylene terephthalate) Staple, Corterra Polymers, (Shell Chemicals 2000)				
			J. Bettner, et al., "High productivity staple fiber spinning technology", Man Made Fibers Year Book (August 2001)				
	<b>—</b>		J. Bettner et al., Zimmer AG, "High Productivity of Staple Fiber Production", <u>The Polyester Chain 2001</u> (Zurich December 23, 2001)				
	LBT		I. Cordes et al., "New Spinning System, Advanced Staple Line Concept Boost Throughput by 100%", International Fibers Journal (1998)				

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